

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/772,441	02/06/2004	James E. Tatem JR.	HAR66 818 DIV 1	5148
75	90 11/29/2006		EXAMINER	
DUANE MORRIS LLP			BOCURE, TESFALDET	
Suite 700 1667 K Street, N.W.			ART UNIT	PAPER NUMBER
Washington, DC 20006			2611	
		DATE MAILED: 11/29/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/772,441	TATEM, JAMES E.				
Office Action Summary	Examiner	Art Unit				
	Tesfaldet Bocure	2611				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address						
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS,						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim fill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONEI	I. ely filed the mailing date of this communication. O (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 06 Fe	ebruary 2004.					
	This action is FINAL . 2b)⊠ This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>53-55 and 61</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>53-55 and 61</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.	•				
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
	•					
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da					
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5/5/04	5) Notice of Informal P. 6) Other:					

DETAILED ACTION

1. Claims 53-55 and 61 are pending in the Application.

Information Disclosure Statement

2. The Information Disclosure Statement received on 05/05/06 has been considered by the Examiner and the initialed copy (one page) of the IDS is attached with this correspondence.

Specification

- 3. The abstract of the disclosure is objected to because the "title of the invention" should be deleted. Correction is required. See MPEP § 608.01(b).
- 4. The disclosed "Related Applications" in page one of the specification should be updated by their issue date and patent number if issued and abandonment date if abandoned.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

⁽b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Application/Control Number: 10/772,441

Art Unit: 2611

6. Claims 53-55 and 61 are rejected under 35 U.S.C. 102(b) as being anticipated by Crutcher (US patent number 4,546,322).

Teaches a Phase Lock Loop (see carrier recovery loop in fig. 1) for locking the phase or frequency of the received signal comprising: a locking mode or capture mode having a frequency range narrower (claimed first range) than the sweep mode or acquisition having a broader frequency range (claimed second range, see col. 6, lines 23-39); and inherently monitoring when in the sweep mode is switched to captured and locked mode (see col. 4, lines 22-42).

When the system is in the lack or capture mode, the frequency of PLL circuit is locked based on the frequency error, therefore, it reads on the first frequency drift is substantially equal to the lock range of the PLL as in claim 53.

Further to claims 54,55 and 61, Crutcher teaches that:

The VCO is controlled through the switch 41 to be either in seep mode or lock mode as in claim 54, i.e. having a respective output either from the sweep mode or lock mode to control the VCO;

The oscillator (30) is Voltage Controlled Oscillator as in claim 55; and The ADV and RTD bits stored in the ROM are used by the PLL when in sweep mode and reads on the claimed storing in claim 61.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. US patent numbers US patent numbers 4,325,023, 5,440,266,

Page 4

Application/Control Number: 10/772,441

Art Unit: 2611

5,914,592 and 5,963,608 issued to Zirwick, Ono, Saito and Casper et al. respectively disclose a PLL circuit having means for performing in lock mode and sweep mode.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tesfaldet Bocure whose telephone number is (571) 272-3015. The examiner can normally be reached on Mon-Thur (7:30a-5:00p) & Mon.-Fri (7:30a-5:00p).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jayanti (Jay) Patel can be reached on (571) 272-2988. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Testaldet Bocure
Primary Examiner
Art Unit 2611